

BRAND NEW & VERIFIED



VERIFIED PRODUCT DATASHEET

NIM-2FXSP

Cisco Network Hardware Specification, Availability and Quote Reference

Product Model	NIM-2FXSP
Document Type	Product Datasheet
Condition	Brand New, Original and Verified
Supplier	Layer23-Switch.com

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NIM-2FXSP Datasheet

The Cisco NIM-2FXSP datasheet provides verified specifications, key features, and application scenarios. This document helps engineers and IT buyers quickly evaluate the NIM-2FXSP and integrate it into enterprise or service provider networks with confidence.

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Key Features

Two FXS Ports with DID Support

Delivers two Foreign Exchange Station (FXS) interfaces that can also operate in Direct Inward Dial (DID) mode, making it ideal for connecting analog telephones, fax machines, or key systems, while also enabling inbound-only PSTN call delivery.

Integrated DSP for High-Quality Voice Processing

Built-in digital signal processor eliminates the need for motherboard PVDMs, providing advanced time-division multiplexed (TDM) voice features including echo cancellation up to 128 ms, voice activity detection (VAD), comfort noise generation, and acoustic shock protection.

Comprehensive Codec Portfolio

Supports widely used codecs such as G.711, G.729a, and G.726, while also offering G.723 and iSAC options for flexible bandwidth optimization. This ensures compatibility across different WAN environments and unified communications systems.

Enhanced Telephony Features for Enterprises

Provides caller-ID generation, battery polarity reversal, Message Waiting Indicator (MWI), cable detection, and configurable long-loop support. These features make the module suitable for enterprise-grade deployments requiring reliable analog line signaling.

Legacy Device and Fax/Modem Compatibility

Ensures smooth integration with T.38 fax relay, fax pass-through, and modem pass-through. This allows industries such as healthcare, retail, government, and utilities to continue using fax machines, alarms, and other analog legacy devices alongside IP telephony.

Operational Simplicity and UC Integration

Supports online insertion and removal (OIR) to reduce downtime, is fully manageable via SNMP/MIB and IOS XE CLI, and interworks seamlessly with SCCP, H.323, SIP, and MGCP 1.0, ensuring smooth integration into Cisco Unified Communications environments.

Specification

Parameter	Specification	Parameter	Specification
Model	NIM-2FXSP (2-port FXS with Power Network Interface Module)	Form factor	NIM plug-in module for Cisco ISR 4000 Series
Ports	2 × FXS, RJ-11 connectors with integrated power feed	Interface type	Foreign Exchange Station (FXS) with ring generator and battery feed
Platform support	Cisco ISR 4321, 4331, 4351, 4431, 4451	Online Insertion/Removal (OIR)	Supported
Typical devices connected	Analog phones, fax machines, modems, key systems requiring line power	Loop current	20 mA to 30 mA nominal (powered FXS interface)
Ring voltage	Up to 75 Vrms, 20–25 Hz	REN capacity	Up to 5 REN per port
Signaling	Loop start, Ground start	Caller ID	Supported (Type I/II, Bellcore and ETSI formats)
Voice codecs	G.711 (A/μ-law), G.729a/b, G.726, G.723.1	Fax/Modem	T.38 Fax Relay, Fax/Modem passthrough
Protocol interworking	SIP, SCCP, H.323, MGCP 1.0	RTP features	RTP/RTCP, RFC 4733 (DTMF relay)
Echo cancellation	Up to 128 ms tail length	Voice optimizations	VAD, CNG, cRTP (Compressed RTP)
DSP resources	On-module DSP (no chassis PVDM required)	Country configuration	Software-selectable (global homologation)
Cabling	2-wire analog, straight-through RJ-11	Use cases	Analog telephony, fax, or powered analog phone support in branch gateways
Minimum software	Cisco IOS XE 3.13 or later (Unified Communications license)	Management	CLI (console/SSH), SNMP, Cisco Prime Collaboration
Regulatory compliance	TIA-968-B (US), CS-03 (CA), AS/CA S002/S003 (AU), TBR 21 (EU)	Weight	Approx. 0.43 lb (≈195 g)
Power consumption	Up to 15 W (due to integrated power feed)	Operating temperature	0°C to 40°C (32°F to 104°F)
Ordering PID	NIM-2FXSP	Warranty	Per Cisco standard hardware warranty policy

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